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RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

See RPI

SUBJECT: Requests relief from augmented inservice insp requirements of NUREG-0313 for welds identified in util 810915 ltr. Util plans to perform induction heating stress improvements on welds. Supporting documentation encl.

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AUG 26 1982

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
INDUCTION HEATING STRESS IMPROVEMENT
REQUEST FOR RELIEF FROM AUGMENTED IN-SERVICE
INSPECTION REQUIREMENTS - UNIT 2
ER 100450 FILE 841-2
PLA-1225 Docket No. 50-388

References:
1) September 15, 1981 letter, Calhoun to Schwencer (PLA-927)
2) PP&L testimony (Walter J. Rhoades) on Atomic Safety and Licensing Board (ASLB) Intervenor Contention 7B (IGSCC)
3) General Electric Co. testimony (Joseph C. LeMaire) on Atomic Safety and Licensing Board (ASLB) Intervenor Contention 7B (IGSCC)

Dear Mr. Schwencer:

The purpose of this transmittal is: to state PP&L's intent to perform Induction Heating Stress Improvement (IHSI) on the Unit 2 welds indentified in Reference 1); to requrest relief from the augmented in-service inspection requirements of NUREG 0313 for these welds; and to submit additional information which correlates Ishikawajima - Harima Heavy Inductries Co's (IHI) and EPRI's experience to Susquehanna SES Unit 2.

On June 25 and 26, 1981, PP&L met with the NRC and its consultants to discuss IHSI as it applies to mitigating the Intergranular Stress Corrosion Cracking (IGSCC) of austenetic stainless steel piping. The intent of this meeting was to familiarize the NRC with the results of analytical and experimental studies performed by IHI in Japan; to discuss the BWR Owners Group (BWROG) project that verifies IHI's findings as applicable to BWR's in the United States; and to request relief from the augmented in-service inspection requirements of NUREG 0313 for Unit 2 welds to which IHSI is applied.

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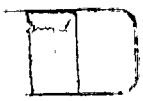

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Mr. A. J. Gianuzzi (EPRI) made a presentation emphasizing the results of the BWR Owners Group project on the benefits of IHSI based on full size pipe tests, residual stress measurement and analysis, and the experimental results of field application work (See Attachment 1).

Following EPRI's presentation, T. Umemoto (IHI) presented information on IHI's work including experimental, field application in Japan and relaxation of residual stress during plant operation (See Attachment 2).

These presentations were followed by detailed discussions focusing on such topics as: the applicability of Japanese test data and experience to U.S. BWR's; stress relaxation of IHSI induced compressive residual stresses during plant lifetime; effect of IHSI on low temperature sensitization and susceptibility to IGSCC; and the IHSI procedures and specifications for each joint configuration with specifications on the control of various process variable. PP&L committed to submitting information correlating IHI's experience to the Susquehanna SES welds to which IHSI would be applied. This information is provided as Attachment 3.

Attachment 4 is a Report of Process Evaluation for IHSI at the Susquehanna SES Unit 2.

The majority of the IHSI candidate piping material is type 304 stainless steel, and is nominally Schedule 80. 15" is the approximate distance between the closest welds to be treated. These welds are indentified as VRR-B31-3 FW A9, VRR-B31-3 VW E and VRR-B31-3 VW N, and are on the bottom and sides of the cross that is located in the center of the recirculation system ring header. A list of the individuals who actually perform the work will be made part of the Quality Assurance documentation package for IHSI.

If you have any questions regarding this matter, please contact Mr. Thomas E. Gangloff at (215) 770-5486.

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nulcear

TEG/jrw

Attachments